

**Rio Mesa Solar Electric Generating Facility (RMSEGF)
(11-AFC-4)**

**Applicant's General Comments and Comments to Conditions of Certification
on the Preliminary Staff Assessment**

FACILITY DESIGN

GENERAL COMMENTS

1. Strike multiple places where stating “if the initial designs are submitted to the chief building official (CBO) for review and approval after the update to the 2010 CBSC takes effect, the 2010 CBSC provisions shall be replaced with the updated provisions” (or similar). State that Rio Mesa SEGF will be designed and constructed to the 2010 CBSC only.

FINDINGS OF FACT

No findings of fact listed are listed in the PSA.

PROPOSED CONDITIONS OF CERTIFICATION

1. **Page 5.1-19, ELEC-1:** Please revise the condition as follows:

ELEC-1 Prior to the start of any increment of electrical construction for all electrical equipment and systems ~~440~~ 480 Volts or higher (see a representative list, below) the project owner shall submit, for CBO design review and approval, the proposed final design, specifications, and calculations. Upon approval, the above listed plans, together with design changes and design change notices, shall remain on the site or at another accessible location for the operating life of the project. The project owner shall request that the CBO inspect the installation to ensure compliance with the requirements of applicable LORS. All transmission facilities (lines, switchyards, switching stations, and substations) are handled in conditions of certification in the **Transmission System Engineering** section of this document.

- A. Final plant design plans shall include:
 1. one-line diagram for the ~~13.8 kV~~, 4.16 kV and 480 V systems;
 2. system grounding drawings;
 3. lightning protection system; and
 4. hazard area classification plan
- B. Final plant calculations must establish:
 1. short-circuit ratings of plant equipment;
 2. ampacity of feeder cables;
 3. voltage drop in feeder cables;
 4. system grounding requirements;
 5. coordination study calculations for fuses, circuit breakers and protective relay settings for the ~~13.8 kV~~, 4.16 kV and 480 V systems;

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6. system grounding requirements;
 7. lighting energy calculations; and
 8. 110/208/277/480 volt lighting system design calculations—and submittals showing ~~feeder sizing, transformer and~~ panel schedule with load and transformer information ~~load confirmation, fixture schedules and~~ lighting layout plans with fixture details
- C. The following activities shall be reported to the CPM in the monthly compliance report:
1. Receipt or delay of major electrical equipment;
 2. Testing or energization of major electrical equipment; and
 3. A signed statement by the registered electrical engineer certifying that the proposed final design plans and specifications conform to requirements set forth in the Energy Commission decision.

Verification: At least 30 days (or project owner- and CBO-approved alternative time frame) prior to the start of each increment of electrical construction, the project owner shall submit to the CBO for design review and approval the above listed documents. The project owner shall include in this submittal a copy of the signed and stamped statement from the responsible electrical engineer attesting compliance with the applicable LORS, and shall send the CPM a copy of the transmittal letter in the next monthly compliance report.